

Hydraulic Cylinders

Lift cylinder stroke	551.2 mmMM
Lift cylinder type	Double-acting
Tilt cylinder stroke	331 mmMM
Lift cylinder bore	69.90MM
Tilt cylinder type	Double-acting with cushioning feature on dump and rollback
Tilt cylinder bore	69.90MM
Lift cylinder rod	44.5 mmMM
Tilt cylinder rod	38.10MM

Performance

Lift breakout force	2036 kgKILOGRAMS
Tilt Breakout force - ISO8313	2279
Push force	3401 kgKILOGRAMS
Ground pressure	32 kPaKPA
Rated operating capacity (ISO 14397-1)	1110 kgKG
Tipping load (ISO 14397-1)	3175 kgKG
Tilt Breakout force	2179.00

Cycle Times

Bucket dump	2.3 secSEC
Raise lift arms	3.8 secSEC
Bucket rollback	1.6 secSEC
Lower lift arms	2.2 secSEC

Hydraulic System

Pump type	Engine driven, gear type
Hydraulic filter	Premium grade, antiwear multiviscosity ISO V646, petroleum based
Pump capacity	66.50
System relief at quick couplers	23.8-24.5 MPa
Control valve	Three-spool, open-centre type with float detent on lift and electrically controlled auxiliary spool
Fluid lines	SAE standard tubelines, hoses, and fittings
Pump capacity (with high flow option)	101.80

Drive System

Tracks	400 mm width. Tension-grease cylinder and triple-flange spring rollers
400 mm wide, rubber	

Traction

Max. travel speed (low range – standard)	10.40
Max. travel speed (high range – optional)	16.40

Brakes

Parking brake	Mechanical disc activated by manually operated switch on left instrument panel
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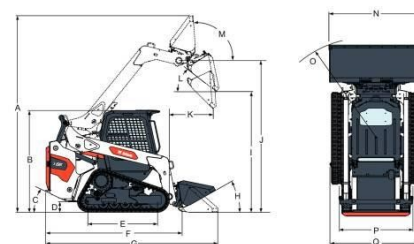
Fluid Capacities

Hydraulic / Hydrostatic reservoir	18.9 IL
Hydraulic / Hydrostatic system	41.6 IL
Cooling system with heater	11.2 IL
Engine oil with filter	8.1 IL
Fuel tank	107.10L
Cooling system without heater	10.8 IL

Fluid Specifications

Hydraulic fluid 5 L can - 6904842A 1000 L	Bobcat Bio Hydraulic tank - 6904842D
Bobcat Superior SH 209 L drum -	6904843C
1000 L tank - 6904843D 25 L container	- 6904842B
5 L can - 6904843A 209 L drum -	6904842C
25 L container - 6904843B	
Engine oil	For synthetic oil use the recommendation from the oil manufacturer.

Dimensions



(A) 3909.60 MM	(J) 3048.00 MM
(B) 2044.70 MM	(K) 933.00 MM
(C) 27 deg DEG	(L) 37.00
(D) 188 mm MM	(M) 94.00
(E) 1378.00 MM	(N) 1879.60 MM
(F) 2717.80 MM	(O) 2103.8 mm MM
(G) 3427.00 MM	(P) 1400.9 mm MM
(H) 30.00	(Q) 1800.9 mm MM
(I) 2395.80 MM	

Oil must meet API Service	Classification of CJ-4 or better, or ACEA E9 or better.
Recommended SAE viscosity number for	anticipated temperature range.
* Can be used onl	y when available with appropriate diesel rating.
Engine coolant	209 L drum - 6904844C
Bobcat PG Coolant	
5 L ca	n - 6904844A
1000 L tank - 6904844D	
25 L	container - 6904844B

Controls

Loader hydraulics tilt and lift	Selectable Joystick Controls (SJC)
Rear auxiliary (optional)	Electrical switch on left-hand steering lever or joystick (SJC)
Vehicle steering	Direction and speed controlled by Selectable Joystick Controls (SJC)
Service brake	Two independent hydrostatic systems controlled by two hand-operated steering levers
Engine	Hand throttle or optional foot accelerator pedal (SJC)
Auxiliary pressure release	Pressure is relieved through the coupler block. Push in and hold for 5 s.
Front auxiliary (standard)	Proportional switch on Selectable Joystick Controls (SJC)
Starting	Keyless start. Glow plugs automatically activated.

Environmental

Whole body vibration (ISO 2631-1) uncertainty	0.40
Hand-arm vibration (ISO 5349–1)	2.78
Hand-arm vibration uncertainty (ISO 5349–1)	1.11 msMS
Operator LpA (98/37 & 474-1)	78.00
Noise level LWA (EU Directive 2000/14/EC)	103.00
Whole body vibration (ISO 2631-1)	0.80

Safety

Operator handbook, standard	Weather-resistant operator handbook attached to the inside of the cab, providing operational instructions and warnings decals with pictorials and international symbols.
Parking brake, standard	Always set brake when leaving loader.
Back-up alarm, optional	For use in areas with high traffic
Rear window, standard	For emergency exit.
Operator cab, standard	An enclosed operator cab with side screens with a minimal inside cab width of 838 mm. Meets SAE -J1040 and ISO 3471 for Roll Over Protective Structure (ROPS) and SAE-J1043 and ISO 3449 Level I * for Falling Objects Protective Structure (FOPS). Level II ** option is available.
Front and rear work lights, standard	Use for indoor and low light operation.
Safety tread, standard	Slip resistant tread on lift arms and main frame to be used when entering/exiting loader.
Seat bar, standard	Secondary operator restraint, also serves as an arm rest.
Lift kits, optional	Lift kits are available so loader may be lifted into remote areas.
Special applications kit, optional	Restricts objects and material from entering cab openings.
Attachment steps, standard	Should always be used when entering/exiting loader.
Bobcat Interlock Control System (BICS), standard	Requires the operator to be seated in the loader with the seat bar in place and the engine running . After the operator presses the “Press to Operate Loader” button, the loader's hydraulic lift and tilt functions and traction drive can be operated.
Grab handles, standard	Should always be used when entering/exiting loader.
Seat belt, standard	Should always be worn when operating the loader. Three-point shoulder belt provides restraint for high range speeds.
Lift arm bypass control, standard	Used to lower the lift arms in the event that the lift arms cannot be lowered during normal operating conditions.
Lift arm support, standard	Use for servicing when lift arms are raised.

Electrical

Battery	12 V BCI group 31 - 1000 A cold cranking at -18°C
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Starter	- 186 min reserve capacity at 25 A
Alternator	12 V gear type 2.7 kW (3.62 hp)
	90 A open frame with internal regulator

Engine

Make / Model	DOOSAN INFRACORE / D24 BSH SV 74 HP DM02-MFL01
Fuel	Diesel
Displacement	2400.00
Bore	90.00MM
Crankcase ventilation	Closed breathing
Number of Cylinders	4
Stroke	94.00MM
Cooling	Liquid
Lubrication	Gear pump pressure with filter
Power at 2600 RPM (ISO 14396)	55.2
Compliance	Stage V (V)
Air filter	Dry replaceable cartridge with safety element
Ignition	Diesel-compression
Torque at 1800 RPM (SAE J1995 Gross)	281.4 nmNEWTON-M

Weights

Operating Weight	4000 kgKG
Shipping Weight	3679 kgKG

Options

Factory Options	<ul style="list-style-type: none">• Clear View Cab• 7" Touch Display (Integrated Bluetooth, Hands Free Calling, Radio, Reversing Camera)• Radio• Auto Ride Control• Power Bob-Tach™• Heated Cloth Air ride seat with 3 point seat belt• Strobe• Cab enclosure kit• 200 lbs (74.4 kg) counterweight kit• Fuel cap locking kit• Replacement Bob-Tach™• Front door kit• Plumbing kit for fresh air heater• FOPS kit **• Power Bob-Tach™ kit• 7-pin attachment control• Rear auxiliary hydraulic kit• Road kit• Keyless kit• 14-pin attachment control kit• 80 mm Suspension seat kit• Headlight guard kit• Tail light guard kit
• Auto HVAC	
<ul style="list-style-type: none">• Torsion Suspension – 5 Link System• Reversing Camera• Reversible Fan• 400mm Wide – Multi Bar Lug Tracks	
<ul style="list-style-type: none">• Beacon	
Dealer Installed Options	
<ul style="list-style-type: none">• Special applications front door kit• Front axle counterweight kit• Deluxe instrument panel• Fresh air heater kit• Door sensor kit• Back up alarm kit• Single-point lift kit• Operator cab, CE, enclosure kit• Four-point lift kit• Engine block heater kit• Bucket positioning kit• Rear window wiper kit• 4-Way flasher kit• Cup holder kit• Muffler guard kit	

Instrumentation

Standard Instrument Panel	<ul style="list-style-type: none">• Gauges◦ Fuel◦ Bobcat Interlock Control System◦ Two speed• Warning lights◦ Seat belt◦ Engine malfunction◦ Lift and tilt valve, hydraulics lock-out◦ Hydraulic oil temperature◦ Hydraulic oil pressure◦ Fuel level◦ Work lights and road lights◦ Auxiliary hydraulics ◦ Traction lock override• Rocker switch• Alarm
	Deluxe Instrument Panel
Same gauges, warning lights and other features as Standard Instrument Panel, plus:	<ul style="list-style-type: none">• Gauges◦ Hydrostatic charge pressure◦ Battery◦ Keyless start with password capability◦ User name and hourmeter◦ Current job hours
<ul style="list-style-type: none">◦ Engine oil pressure / temperature◦ Hydraulic oil temperature• Additional features◦ Digital clock◦ Attachments control information	

- High Flow lockouts
- Help screens
- DPF Management
- Engine/hydraulic systems shutdown function
- Icons
- Vitals (Engine speed, Oil Pressure, Temperature , System voltage, Hydraulic charge pressure, Oil temperature)
- Main screen
- Security
- HEST Lamp
- Forced Parked Regeneration
- Buttons
- Enter

Serviceability

Access is available to the following through the rear door/tailgate and rear screen:

- Alternator
- Cooling system (engine oil and hydraulic oil coolers easily separable for cleaning)
- Engine oil drain and dipstick

• Starter
Easy access to all lift arm grease points

Tailgate has an optional lock for vandal-proofing

Tip-up operator cab gives access to certain hydraulic system components

Attachments

- Auger Accessories
- Bale Forks
- Breaker Accessories
- Brush Saws
- Combination Buckets
- Concrete Pumps
- Diggers
- Drop Hammers
- Flail Cutters
- Graders
- Landplanes
- Laser Equipment
- Miscellaneous
- Pallet Fork Accessories
- Planer Accessories
- Rear Stabilizers
- Root Grapples
- Sand Cleaners
- Scrapers
- Skeleton Buckets
- Snow Pushers
- Sod Layers
- Spreader
- Stump Grinders
- Tilt-Tatch
- Trench Compactors
- Utility Forks
- Vibratory Rollers
- Wood Chippers

Standard Features

- 3 Point Seat belt
- 5" Standard Display (Radio Ready)
- Auxiliary hydraulics: variable flow/maximum flow
- Bobcat Interlock Control System (BICS)
- Deluxe pressurized cab with HVAC

- Engine/hydraulics system shutdown
- Horn
- LED Working Lights front and rear
- Machine IQ (telematic)
- Parking brake
- Selectable Joystick Controls (SJC)
- Two Speed Travel

- Multi-language display
- Auto Idle
- Diagnostic capability
- Password lockout
- Active warnings

- Service
- Attachments
- DPF Regeneration
- Inhibit DPF Regeneration
- Display
- Left scroll
- Right scroll

- Air filter
- Battery

- Engine oil and fuel filters
- Hydraulic oil fill and filter (access at the upper right side of the machine)

Access available via the side of the machine:
Rod end of the tilt cylinder has a replaceable bushing

Tailgate is equipped with door-stop to hold door open while servicing

Bob-Tach™ pivots have replaceable wear bushings

- Augers
- Box Blades
- Breakers
- Brushcat™ Rotary Cutters
- Concrete Mixers
- Construction / Industrial Buckets
- Dozer Blades
- Dumping Hoppers
- Forestry Cutters
- Grapples, Industrial
- Landscape Rakes
- Low Profile Buckets
- Mixing Buckets
- Pallet Forks, Hydraulic
- Planers
- Remote Control
- Rotary Grinders
- Scarifiers
- Seeders
- Snow Blades
- Snow V-Blades
- Soil Conditioners
- Spreaders
- Sweepers
- Tree Transplanters
- Trenchers
- Utility Frames
- Wheel Saws

- 400mm Wide Rubber Tracks
- Adjustable suspension seat
- Backup Alarm
- Bob-Tach™ Attachment System
- Dual Direction Bucket Positioning (including ON /OFF switch)
- High flow hydraulics
- Key start
- Lift arm support
- Manual
- Seat bar
- Spark arrestor muffler
- Warranty: 24 months or 2000 hours (whichever occurs first)

